



# POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 231 July 28, 1961

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### SPECIAL NOTE

This report is intended for the information and administrative use of those involved in the investigation and control of poliomyelitis and polio-like diseases. It presents a summary of provisional information reported to CDC from State Health Departments, Virology Laboratories, Epidemic Intelligence Service Officers, and other pertinent sources. Since much of the information is preliminary in nature, confirmation and final interpretation should be determined in consultation with the original investigators prior to any further use of the material.

SUMMARY

During the 29th week ending July 22, a sharp decrease in total and paralytic case reporting was evident, with only 11 cases, 5 paralytic, contained in State telegraphic reports.

A narrative report from Texas, and a follow-up report of the Rhode Island aseptic meningitis outbreak are included.

A current summary of enterovirus surveillance is also presented as well as the summary of poliomyelitis vaccine shipments during June.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A sharp decrease in total and paralytic case reporting occurred during the 29th week ending July 22. A total of 11 cases, 6 paralytic, was compiled from State telegraphic reports, a decline from last week's figures as shown in Figure 1. The low incidence during 1961 to date thus continues, with cumulative morbidity reporting lower now than at any comparable time in recent years. The table below presents current six-week totals with similar figures for the past 4 years and emphasizes the low seasonal reporting.

Comparable Six Weeks Totals (24th Week through 29th Week)

	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>
Paralytic	55	275	693	241	287
Total	96	374	1,081	495	957

Texas accounted for 4 cases, 2 paralytic, and California for 2 paralytic cases. Single case reports were received from Arkansas, Idaho New Mexico, North Carolina, and Vermont. The Vermont case represents the first report from the New England region in five months.

No additional cases have been reported from the outbreak in Atlanta, Georgia, or from Mobile, Alabama, and no new concentrations have been noted.

2. REPORTS

A. Texas

Dr. T. E. Dodd, Epidemiologist, Texas State Department of Health, reports that the 4 cases of poliomyelitis reported for the week ending July 22 are from four different counties, and only two are paralytic. One paralytic case had onset on July 2 in Milam County while the other is a delayed report from Nueces County with onset in January. The two non-paralytic cases occurred in Marion and Reeves Counties.

According to the weekly Texas Morbidity Report, there have been 16 paralytic cases reported in Texas during the first 26 weeks of 1961. Eleven (11) of these were under five years of age; three (3) between five and ten; and two (2) over fifteen years of age. Ten of the 16 cases had received no vaccine while 4 had received at least three doses.

### B. Rhode Island Aseptic Meningitis

Dr. James E. Bowes, Acting State Epidemiologist, reports three new cases of aseptic meningitis this week, aged 7, 8, and 11 which, with the 10 cases described last week, make a total of 13 cases that have occurred in northern Rhode Island during June and July. One of the current cases was from Woonsocket, one from Cumberland, and one from Pawtucket.

During this same time, a large number of families have been afflicted with a febrile illness, probably related etiologically to the aseptic meningitis. A study of six of these families with 16 sick children and 3 sick adults, gave the following characterization of the febrile illness.

#### Symptoms and Signs of Febrile Illness (among 19 cases from 6 families)

<u>Symptoms</u>	<u>Percent of Cases</u>
Fever	95
Headache	68*
Nausea and vomiting	53
Abdominal pain	32
Myalgia	26*
Chest pain (pleuritic)	21*
Diarrhea	16
Sore throat	11

#### Signs (among 11 cases examined)

Nuchal rigidity	9
Abdominal tenderness	9
Hepato-splenomegaly	9

\*Three were too young to describe symptoms.

Stool specimens, C.S.F. specimens, and some throat washings have been shipped to Dr. Andrew Fodor, Chief, Virus Reference Unit, C.D.C., Atlanta.

### 3. 1961 POLIOMYELITIS CASES REPORTED TO PSU

Through July 26, there have been 182 cases of poliomyelitis with onset in 1961 submitted to the Poliomyelitis Surveillance Unit on individual case forms. Of these 182 cases, 138 (76 percent) are paralytic.

There has been one additional poliovirus isolation reported on the 41 polio surveillance case records received during the past three weeks. This was a type I isolate from a case in Edinburg, Indiana with onset in January.

#### 4. ROUTINE POLIOMYELITIS SURVEILLANCE

##### A. Cases with onset within 30 days of vaccination

During the week of July 20 through July 26, the Poliomyelitis Surveillance Unit received notification of one additional (paralytic) case of poliomyelitis which occurred within thirty days of vaccination. This case is a 2 year old male from Los Angeles County, California, with facial paralysis. Onset of symptoms was noted on June 17 after receiving a second shot of Salk vaccine in the arm on May 26 with Pfizer lot No. 04384.

There are now six under-30-day cases reported in 1961, of which five are paralytic (one correlated). At this date in 1960, a total of thirteen under-30-day cases were reported reflecting the higher incidence of poliomyelitis at this time last year.

##### B. Vaccine Distribution

The summary of current and cumulative shipments of poliomyelitis and multiple antigen vaccines through June, 1961, is presented in Table II. Monthly shipments since January, 1959 are depicted in Figure II. It may be noted that the 7,065,000 cc's shipped during June is the largest shipment in any single month since September, 1959.

#### 5. ENTEROVIRUS SURVEILLANCE

A total of 163 enterovirus isolations has been reported to the Poliomyelitis Surveillance Unit thus far in 1961. Included in this total are 54 poliovirus, 70 Coxsackie, and 18 ECHO isolates.

The first concentration of type II poliovirus isolates this year has been reported to Dr. James O. Bond. In a stool survey of 27 healthy children in Manatee County, Florida, 6 type II poliovirus isolates were obtained (See PSU Report No. 229). The survey had been prompted by a cluster of 5 cases of poliomyelitis, 3 paralytic, in Manatee County. Interestingly, type I poliovirus has been isolated from one of the paralytic cases, and a type 3 serologic response has been found in another.

Fifteen additional Coxsackie B-5 isolates have been obtained from the aseptic meningitis outbreak in King George County, Virginia. This brings the total to 26 (See PSU Report No. 228).

Coxsackie B-2 continues to be strongly implicated in the outbreak of febrile illness in Lind, Washington (See PSU Report No. 220). A total of 13 isolates has been obtained from patients thus far. The geographic breakdown on the reported enterovirus isolations is shown in the Table on Page 6.

(This surveillance report was prepared by the Poliomyelitis and Polio-like Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, David G. Miller, M.D., and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

State	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	Total
Alabama	1	0	0	0	0	0	0	0	0	0	0	1
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
California	0	0	0	0	0	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0	0	0	0	0	0
Connecticut	0	0	0	0	0	0	0	0	0	0	0	0
Delaware	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	0	0	0	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0	0	0	0
Iowa	0	0	0	0	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	0	0	0	0	0
Maine	0	0	0	0	0	0	0	0	0	0	0	0
Maryland	0	0	0	0	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	0	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	0	0	0	0	0
Minnesota	0	0	0	0	0	0	0	0	0	0	0	0
Mississippi	0	0	0	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0
New Jersey	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0	0	0	0	0
New York	0	0	0	0	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0	0	0	0	0
Ohio	0	0	0	0	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	0	0	0	0	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>13</b>	<b>0</b>	<b>13</b>									

\*Specific types include twenty-six Coxsackie B-2 in Virginia, three in Pennsylvania, and one each in Maryland, Massachusetts, New Jersey, Ohio, and Washington; twelve Coxsackie B-2 in Washington, three in New Hampshire; four Coxsackie B-2 in Georgia, two in Louisiana; three Coxsackie A-9 in Texas; two Coxsackie-unspecified in Alabama, one in Arkansas, one in Colorado, one in Florida, one in Illinois, one in Indiana, one in Iowa, one in Kansas, one in Kentucky, one in Louisiana, one in Michigan, one in Minnesota, one in Missouri, one in Nebraska, one in Nevada, one in New Mexico, one in New York, one in North Carolina, one in North Dakota, one in Oklahoma, one in Oregon, one in South Carolina, one in South Dakota, one in Tennessee, one in Texas, one in Utah, one in Vermont, one in Virginia, one in Washington, one in West Virginia, one in Wisconsin, and one in Wyoming.

## Enterovirus Isolations from 1961 Specimens

State	Poliovirus			ECHO**	Cox-*** sackie	Other and Unsp.	Total	Reported by
	I	II	III					
Alabama	-	-	1	1	2	-	4	W. Smith & T. Hosty
Colorado	-	-	-	3	-	-	3	C. Mollohan
Florida	2	6	2	-	-	-	10	N. Schneider & J. Bond
Georgia	-	-	4	-	4	-	8	W. Murphy
Hawaii	2	-	-	-	4	2	8	K. Wilcox
Idaho	4*	1	1	-	-	-	6	A. Klotz
Illinois	1	-	-	-	-	-	1	H. Shaughnessy
Indiana	1	-	-	-	-	-	1	A. Marshall
Louisiana	2	-	-	-	2	-	4	J. Bruce & G. Hauser
Maryland	-	-	-	2	1	2	5	C. Perry
Mass.	1	-	-	-	1	5	7	R. MacCreedy
Minn.	2	-	2	3	1	2	10	H. Bauer
Miss.	1	-	-	-	-	-	1	CDC Virus Diagnostic Unit
Missouri	1	-	-	-	-	-	1	I. Adams
Montana	-	-	2	-	-	-	2	M. Soules
N. H.	-	-	-	-	1	-	1	R. Miliner
N. J.	1	-	1	-	1	-	3	M. Goldfield
N. Y.	-	-	-	-	-	1	1	R. Albrecht
N. C.	1	-	-	-	1	-	2	L. Maddry
Ohio	2	-	-	1	4	1	8	L. Ey
Oklahoma	-	-	-	-	-	4	4	F. Hassler
Oregon	1	-	1	-	-	1	3	G. Brandon & M. Skinner
Pa.	-	-	1	-	3	-	4	K. Hummeler
S. C.	-	-	2	-	1	-	3	G. McDaniel
Texas	1	-	2	4	4	3	14	G. Irons
Utah	-	-	1	-	-	-	1	A. Jenkins
Virginia	-	-	-	-	26	-	26	W. Skinner
Washington	-	-	4	-	13	-	17	W. Giedt & K. Berquist
Wisconsin	-	-	-	4	1	-	5	A. Evans
TOTAL	23	7	24	18	70	21	163	

\*One family with one clinical case accounted for all isolates.

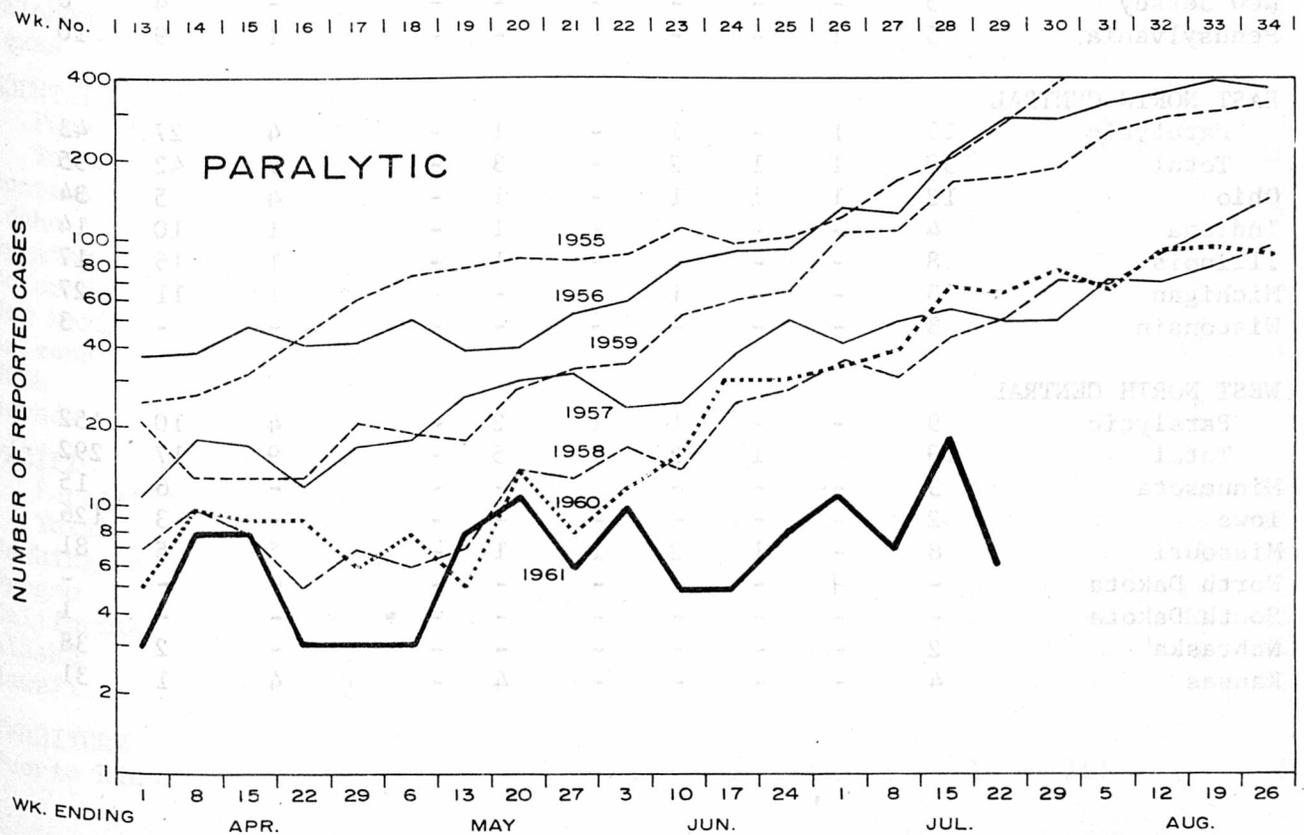
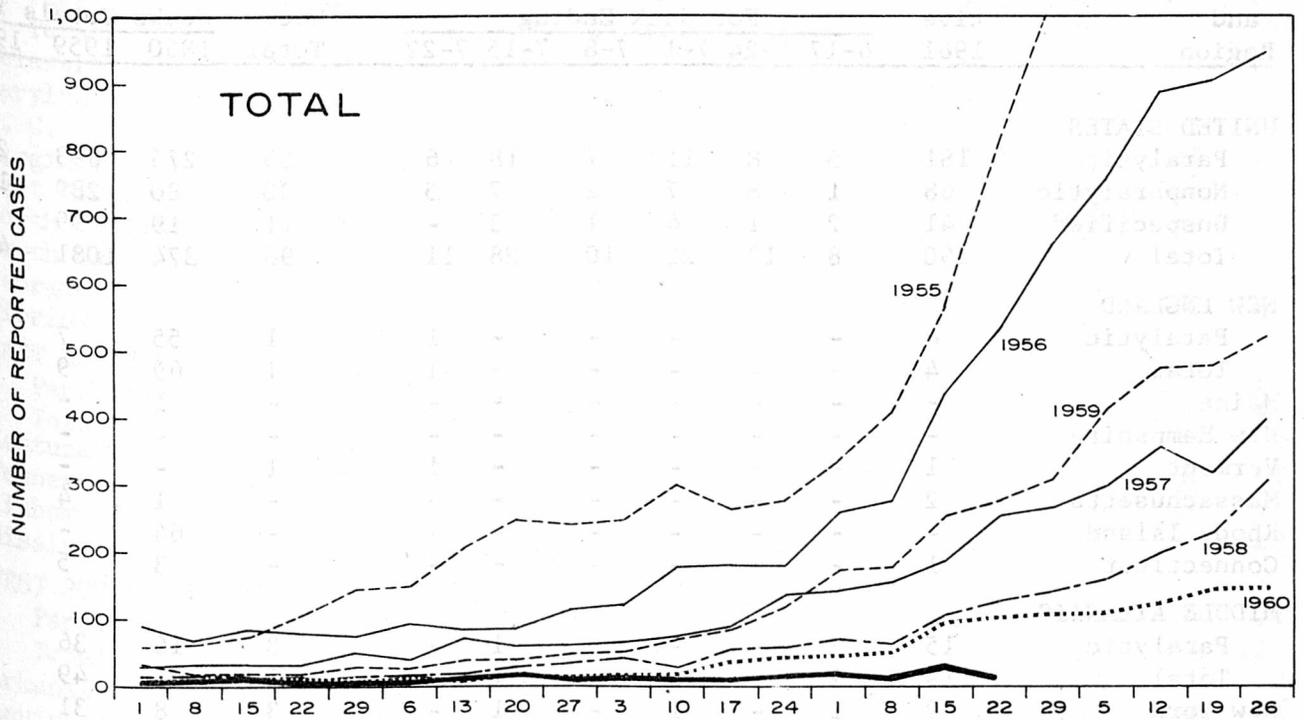
\*\*Specific types include ECHO 1, 7, and 14 in Minnesota; four ECHO 9 in Texas; ECHO 14 in Ohio; two ECHO 11 in Maryland and one in Wisconsin; two ECHO 10 and one ECHO 4 in Wisconsin; three ECHO 19 in Colorado; ECHO-unspecified in Alabama.

\*\*\*Specific types include twenty-six Coxsackie B-5 in Virginia, three in Pennsylvania, and one each in Maryland, Massachusetts, New Jersey, Ohio, and Washington; twelve Coxsackie B-2 in Washington, three in Texas, and one in New Hampshire; four Coxsackie B-4 in Georgia, two in Louisiana, and one each in Minnesota and South Carolina; three Coxsackie A-16 in Ohio; one Coxsackie A-9 in Texas; two Coxsackie-unspecified in Alabama; four Coxsackie A-unspecified in Hawaii and one in North Carolina, and B-unspecified in Wisconsin.

Figure 1

CURRENT U.S. POLIO INCIDENCE  
 COMPARED WITH YEARS 1955-1960; APRIL-AUGUST, BY WEEK.

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS  
 AND COMMUNICABLE DISEASE CENTER



WK. ENDING APR. MAY JUN. JUL. AUG.

Table 1

## TREND OF 1961 POLIOMYELITIS INCIDENCE

State and Region	Cumula- tive 1961	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		6-17	6-24	7-1	7-8	7-15	7-22		1960	1959	1958
UNITED STATES											
Paralytic	181	5	8	11	7	18	6	55	275	693	241
Nonparalytic	68	1	8	7	2	7	5	30	80	289	171
Unspecified	41	2	1	4	1	3	-	11	19	99	83
Total	290	8	17	22	10	28	11	96	374	1081	495
NEW ENGLAND											
Paralytic	4	-	-	-	-	-	1	1	55	7	5
Total	4	-	-	-	-	-	1	1	69	9	6
Maine	-	-	-	-	-	-	-	-	1	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
Vermont	1	-	-	-	-	-	1	1	-	-	-
Massachusetts	2	-	-	-	-	-	-	-	1	4	3
Rhode Island	-	-	-	-	-	-	-	-	64	-	-
Connecticut	1	-	-	-	-	-	-	-	3	5	3
MIDDLE ATLANTIC											
Paralytic	15	2	-	-	-	1	-	3	16	36	16
Total	19	2	-	1	-	1	-	4	21	49	27
New York	9	1	-	1	-	1	-	3	8	31	14
New Jersey	5	-	-	-	-	-	-	-	4	8	12
Pennsylvania	5	1	-	-	-	-	-	1	9	10	1
EAST NORTH CENTRAL											
Paralytic	19	1	-	2	-	1	-	4	27	43	11
Total	30	1	1	2	-	3	-	7	42	95	34
Ohio	12	1	1	1	-	1	-	4	5	34	6
Indiana	4	-	-	-	-	1	-	1	10	14	1
Illinois	8	-	-	-	-	1	-	1	16	17	8
Michigan	3	-	-	1	-	-	-	1	11	27	14
Wisconsin	3	-	-	-	-	-	-	-	-	3	5
WEST NORTH CENTRAL											
Paralytic	9	-	-	1	1	2	-	4	10	152	3
Total	19	-	1	2	1	5	-	9	17	292	19
Minnesota	3	-	-	-	-	-	-	-	6	15	2
Iowa	2	-	-	-	-	-	-	-	3	126	3
Missouri	8	-	1	2	1	1	-	5	5	81	4
North Dakota	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	1	3
Nebraska	2	-	-	-	-	-	-	-	2	38	1
Kansas	4	-	-	-	-	4	-	4	1	31	6

Table 1 (Continued)

State and Region	Cumulative 1961	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		6-17	6-24	7-1	7-8	7-15	7-22		1960	1959	1958
<b>SOUTH ATLANTIC</b>											
Paralytic	32	1	4	4	2	6	-	17	37	92	56
Total	47	1	7	10	2	7	1	28	58	127	139
Delaware	2	-	-	-	-	-	-	-	-	2	1
Maryland	3	-	-	-	1	2	-	3	-	-	-
D. C.	-	-	-	-	-	-	-	-	-	-	3
Virginia	1	-	1	-	-	-	-	1	-	25	14
West Virginia	7	-	-	1	1	2	-	4	6	11	14
North Carolina	5	-	-	-	-	-	1	1	6	31	11
South Carolina	4	-	2	-	-	-	-	2	33	9	2
Georgia	16	1	3	5	-	2	-	11	2	23	11
Florida	9	-	1	4	-	1	-	6	11	26	83
<b>EAST SOUTH CENTRAL</b>											
Paralytic	12	-	2	-	1	3	-	6	17	103	10
Total	29	2	2	1	3	3	-	11	18	126	40
Kentucky	16	1	-	1	-	-	-	2	1	4	5
Tennessee	5	1	-	-	3	-	-	4	3	36	14
Alabama	4	-	1	-	-	3	-	4	6	64	2
Mississippi	4	-	1	-	-	-	-	1	8	22	19
<b>WEST SOUTH CENTRAL</b>											
Paralytic	28	1	1	3	1	2	2	10	30	182	74
Total	52	1	3	3	1	6	5	19	54	278	125
Arkansas	3	-	1	-	-	-	1	2	6	57	4
Louisiana	13	-	2	2	-	2	-	6	14	39	14
Oklahoma	1	-	-	-	-	1	-	1	4	38	10
Texas	35	1	-	1	1	3	4	10	30	144	97
<b>MOUNTAIN</b>											
Paralytic	14	-	-	-	1	-	1	2	6	21	9
Total	24	-	-	-	2	-	2	4	7	40	31
Montana	2	-	-	-	1	-	-	1	3	1	19
Idaho	5	-	-	-	-	-	1	1	-	5	2
Wyoming	-	-	-	-	-	-	-	-	-	1	-
Colorado	3	-	-	-	-	-	-	-	3	4	3
New Mexico	2	-	-	-	-	-	1	1	1	10	6
Arizona	5	-	-	-	-	-	-	-	-	17	1
Utah	7	-	-	-	1	-	-	1	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	2	-
<b>PACIFIC</b>											
Paralytic	48	-	1	1	1	3	2	8	77	57	57
Total	66	1	3	3	1	3	2	13	88	65	74
Washington	10	-	1	-	-	1	-	2	-	9	2
Oregon	7	-	1	2	-	-	-	3	6	15	7
California	47	1	1	1	1	2	2	8	81	40	40
Alaska	-	-	-	-	-	-	-	-	-	1	-
Hawaii	2	-	-	-	-	-	-	-	1	-	25
<b>TERRITORY</b>											
Puerto Rico	5	-	-	-	-	1	NR	1	165	-	3

Table II

THE NATIONAL FOUNDATIONMONTHLY REPORT OF POLIOMYELITIS VACCINE RELEASED AND SHIPPED\*  
(1,000 cc's)

June, 1961

	<u>SINGLE ANTIGEN</u>		<u>MULTIPLE ANTIGEN</u>		<u>TOTAL</u>	
	<u>This Month</u>	<u>To Date</u>	<u>This Month</u>	<u>To Date</u>	<u>This Month</u>	<u>To Date</u>
CC. Released	9,172	491,543	23	15,502	9,195	507,045
CC. Shipped:						
National Foundation	6	15,253	-	-	6	15,253
Public Agencies	3,842	176,061	11	1,143	3,853	177,204
Commercial Channels	<u>3,123</u>	<u>175,472</u>	<u>83</u>	<u>13,305</u>	<u>3,206</u>	<u>188,777</u>
Domestic Total	<u>6,971</u>	<u>366,786</u>	<u>94</u>	<u>14,448</u>	<u>7,065</u>	<u>381,234</u>
Export	1,887	107,988	27	627	1,914	108,615

\* Includes manufacturer's adjustments of previously reported figures.

CC. UNSHIPED, END OF MONTH\*  
(1,000 cc's)

	<u>1960</u>	<u>1961</u>
January	19,459	14,755
February	20,965	15,737
March	27,062	13,414
April	27,216	10,887
May	24,846	6,448
June	24,620	6,558
July	23,830	
August	24,525	
September	23,091	
October	19,565	
November	16,319	
December	15,669	

\* Excludes outdated vaccine removed from inventory.

**FIGURE II**  
**MONTHLY SHIPMENTS OF POLIOMYELITIS VACCINE; 1959-61**

